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# NOTICE OF ALLOWANCE AND FEE(S) DUE

90323

7590

12/23/2010

Innovation Counsel LLP 21771 Stevens Creek Blvd Ste. 200A Cupertino, CA 95014 EXAMINER

KIM, RICHARD H

ART UNIT PAPER NUMBER

2871

DATE MAILED: 12/23/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/565,837	01/25/2006	Young-Goo Song	21ST01555 US	7654

TITLE OF INVENTION: ARRAY SUBSTRATE FOR LCD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/23/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

CURRENT CORRESPOND 90323	F	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
Innovation Cor 21771 Stevens ( Ste. 200A	Creek Blvd	S	Certificate of Mailing or Transmission  I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.				
Cupertino, CA 9	95014		Γ				(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	)R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/565,837	01/25/2006	•	Young-Goo Song	ong		21ST01555 US	7654
TITLE OF INVENTION	R: ARRAY SUBSTRATI	E FOR LCD					
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/23/2011
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KIM, RIC	CHARD H	2871	349-043000				
☐ "Fee Address" ind	oondence address (or Cha B/122) attached. lication (or "Fee Address 02 or more recent) attack	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comj GNEE	pletion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CI	patent. If an assign assignment. TY and STATE OR	COUNT	TRY)	locument has been filed for
Please check the appropr	riate assignee category or		* '				• •
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			<ul> <li>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>				
5. Change in Entity Sta	,	,					
	ns SMALL ENTITY state		b. Applicant is no l				
NOTE: The Issue Fee an interest as shown by the	records of the United Sta	uired) will not be accepte ites Patent and Trademark	d from anyone other that c Office.	the applicant; a reg	istered :	attorney or agent; or t	he assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration	No		
an application Confiden	tiality is governed by 35 d application form to the ions for reducing this bu /irginia 22313-1450. DO	IIIS C 122 and 37 CFR	1.14 This collection is	estimated to take 12	minutes	s to complete includi	d by the USPTO to process ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450

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10/565,837	01/25/2006		Young-Goo Song	21ST01555 US	7654
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Innovation Cou	nsel LLP	KIM, RICHARD H			
21771 Stevens Creek Blvd				ART UNIT	PAPER NUMBER
Ste. 200A Cupertino, CA 95014				2871 DATE MAILED: 12/23/2010	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 115 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 115 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/565,837	SONG ET AL.			
Notice of Allowability	Examiner	Art Unit			
	   RICHARD H. KIM	2871			
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313 1.   This communication is responsive to 10/28/10.	(OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is	n this application. If not includ unication will be mailed in due	ed course. <b>THIS</b>		
2. X The allowed claim(s) is/are <u>1,3,5-7,9,11-13,15,17,18,20,22</u>	2 22 26 20 32 and 33				
3. Acknowledgment is made of a claim for foreign priority ur  a) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	nder 35 U.S.C. § 119(a)-(d)  been received.  been received in Application cuments have been received	on No ed in this national stage applica			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
<ul> <li>Attachment(s)</li> <li>1. Notice of References Cited (PTO-892)</li> <li>2. Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li></ul>	FOR THE DEPOSIT OF Black  5. □ Notice of Ir 6. □ Interview S Paper No. 7. □ Examiner's				

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### **DETAILED ACTION**

# Allowable Subject Matter

- 1. Claims 1, 3, 5-7, 9, 11-13, 15, 17, 18, 20, 22, 23, 26-29, 32 and 33 allowed.
- 2. The following is an examiner's statement of reasons for allowance: The prior art of record, taken alone or in combination, fails to teach or disclose in light of the specifications claim 1) an array substrate comprising a first portion overlapped with the display region and a second portion overlapped with the sealine region and separated from the first portion by an opening window extending in a longitudinal direction of the sealine region, wherein the second portion is disposed at an inside of the opening window on the second insulation layer; claim 7) a liquid crystal display apparatus comprising a first portion overlapped with the display region and a second portion overlapped with the sealine region and separated from the first portion by an opening window extending in a longitudinal direction of the sealine region, wherein the second portion is disposed at an inside of the opening window on the second insulation layer; claim 13) a method of forming an array substrate, comprising forming a first insulation layer having a first portion overlapped with the display region and a second portion overlapped with the sealine region and separated from the first portion, the opening window extending in a longitudinal direction of the sealine region, wherein the second portion is disposed at an inside of the opening window on the second insulation layer; and claim 18) a method of forming a liquid crystal display apparatus comprising forming a first portion overlapped with the display region and a second portion overlapped with the sealine region and separated from the first portion by an opening window in the sealine region, wherein the opening window extends in a longitudinal direction of the sealine region, wherein the second portion is disposed at an inside of the opening

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window on the second insulation layer; **claim 32**) an array substrate comprising a first insulation layer having a first portion overlapped with the display region and a second portion overlapped with the sealine region and separated from the first portion by an opening window extending in a longitudinal direction of the sealine region; and a second portion is disposed at an inside of the opening on the second insulation layer; and **claim 33**) a liquid crystal display apparatus comprising a first insulation layer having a first portion overlapped with the display region and a second portion overlapped with the sealine region and separated from the first portion by an opening window extending in a longitudinal direction of the sealine region; and a second portion is disposed at an inside of the opening on the second insulation layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RICHARD H. KIM whose telephone number is (571)272-2294. The examiner can normally be reached on 9:00-6:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Richard H Kim/ Primary Examiner, Art Unit 2871